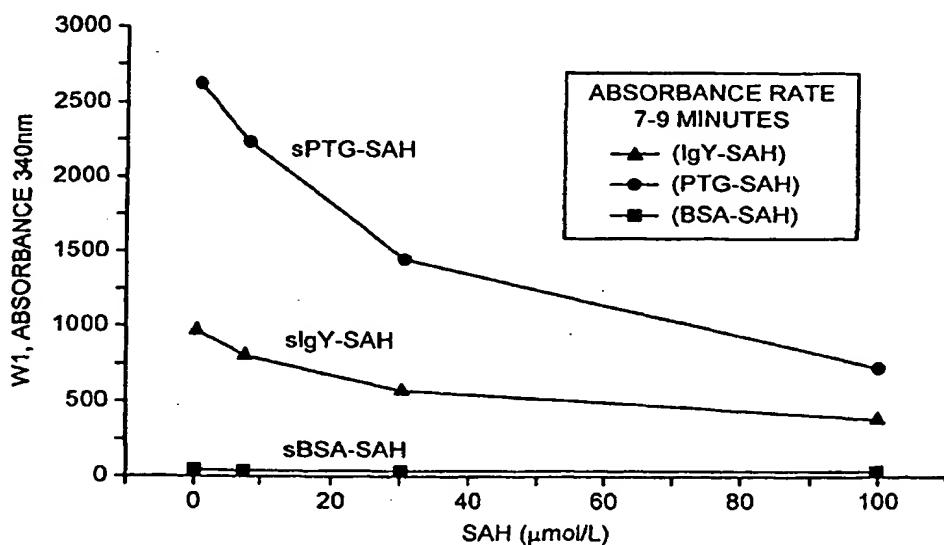


PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

| | | | |
|---|----|--|-------------------------|
| (51) International Patent Classification ⁷ : | A1 | (11) International Publication Number: | WO 00/40973 |
| G01N 33/68 | | (43) International Publication Date: | 13 July 2000 (13.07.00) |
| (21) International Application Number: PCT/GB99/04442 | | (81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). | |
| (22) International Filing Date: 30 December 1999 (30.12.99) | | Published <i>With international search report.</i> | |
| (30) Priority Data: 9900159.6 5 January 1999 (05.01.99) GB | | | |
| (71) Applicant (for all designated States except US): AXIS-SHIELD ASA [NO/NO]; Ulvenveien 87, P.O. Box 206 Økem, N-0510 Oslo (NO). | | | |
| (71) Applicant (for GB only): COCKBAIN, Julian [GB/GB]; Flat 4, 83 Linden Gardens, London W2 4EU (GB). | | | |
| (72) Inventor; and | | | |
| (73) Inventor/Applicant (for US only): FRANTZEN, Frank [NO/NO]; Axis-Shield ASA, Ingeniørgården, N-8031 Bodø (NO). | | | |
| (74) Agents: COCKBAIN, Julian et al.; Frank B. Dehn & Co., 179 Queen Victoria Street, London EC4V 4EL (GB). | | | |

(54) Title: ASSAY FOR HOMOCYSTEINE



(57) Abstract

The invention provides a method for assaying homocysteine in a sample, said method comprising: contacting said sample with two or three stable aqueous reagents containing a polyhapten, a homocysteine converting enzyme, a primary antibody capable of binding to said polyhapten whereby to produce a complex, and if desired one or more of a co-substrate for said homocysteine converting enzyme, a reducing agent, a further enzyme capable of converting said co-substrate or a conversion product of said homocysteine converting enzyme, and a second antibody capable of binding to said complex, said primary antibody also being capable of binding to said co-substrate or a conversion product of one of said enzymes whereby the quantity of said complex produced is indicative of the content of homocysteine in said sample; and photometrically detecting said complex.